

SmartCone™ Release History

Note: Comments in Black mean new features or capabilities and Red changes mean corrections from previous versions.

Version	Release Date	Changes
1.02.52	3/1/2011	Removed ARC selection
1.02.51	2/10/2011	Added Isentropic exponent entry Changed "Fluid Compressibility" label to "Y Factor Type"
1.02.50	12/23/2010	Improved unit conversion Reduced size of the main window Fixed Reynolds number calculation Added icons for main tabs and Calculate and Report buttons Flow rate table reduced, "Q-lb/s" and "Q-ACFS" are removed Calculated Values section moved below flow rate table Results are recalculating when fluid type or fluid compressibility type is changed Added option for selecting fluid compressibility type Added flow rate metric units
1.02.41	10/12/2010	Added density override input boxes for Hydrocarbon liquid case Report generating Error - Report Viewer libraries were not included in the installation
1.02.40	10/1/2010	Removed base density calculation for hydrocarbon liquid Added range validation for pressures, temperatures and override densities used in all cases Added range validation for the steam quality used in saturated steam case Added Range validation for the SG, heating value and gas composition volume used in AGA8 Moved "About" form to traditional separate form Moved SmartCone File buttons to File Menu Added Actual Barrels per Day units Removed molecular Density units options Steam Report corrected - Columns 9 and 10 are repeated Added Steam Calculations
1.02.30	9/14/2010	Rectified AGA8 gross 1 and gross 2 methods Removed tab icons Compressibility result disabled for water and hydrocarbon liquid Added Saturated Steam report (calculations not implemented) Changed position of Specific Gravity textbox from Gross2 tab to main form All Reports simplified Calculation error - using AGA8 density results are converting twice from DM3/mol to user units Added AGA8 gross method report Added Water report Added Live Beta Calculation

Added Save/Open Sizing File Feature

Rectified Water Calculations

1.02.20	8/30/2010	Simplified Report Layout Adjusted DP Values in geometric progression so it converts range without repeating values Flowing pressure units on report were showing base units
1.02.10	8/10/2010	Calculation Error - using AGA8 results in DM3/mol as if they were in lb/ft3 Spelling typos in reports Conversion from Gage pressure units to absolute Liquid did not handle °C or °F selection of base temperature Density result was only updating with AGA8 method Liquid densities, when using TP27-table23 the input was in relative density not in Kg/m3 Flowing pressure units on report where the base units
1.00.00	8/1/2010	First Running Version
